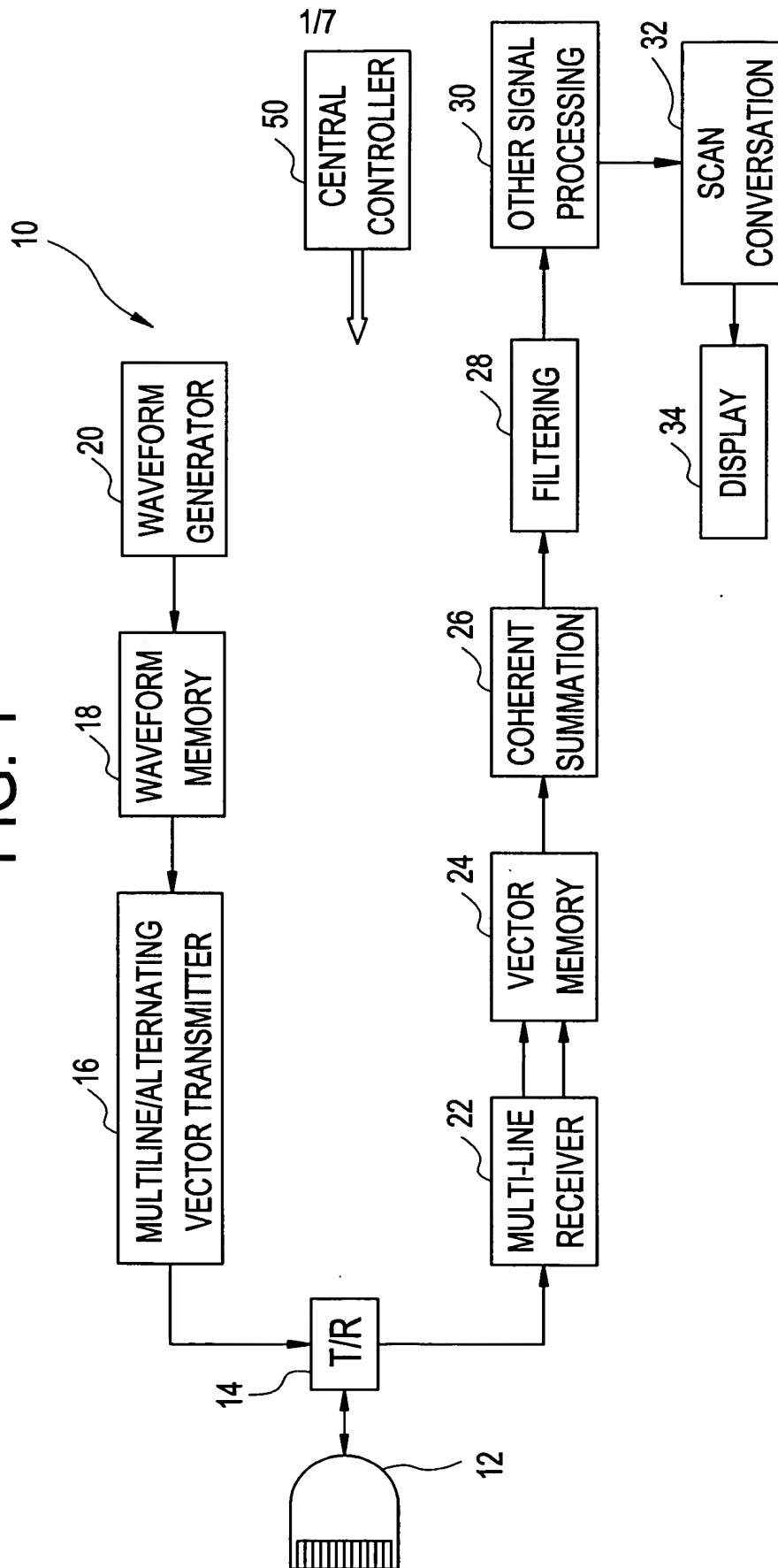




FIG. 1



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FIG. 2

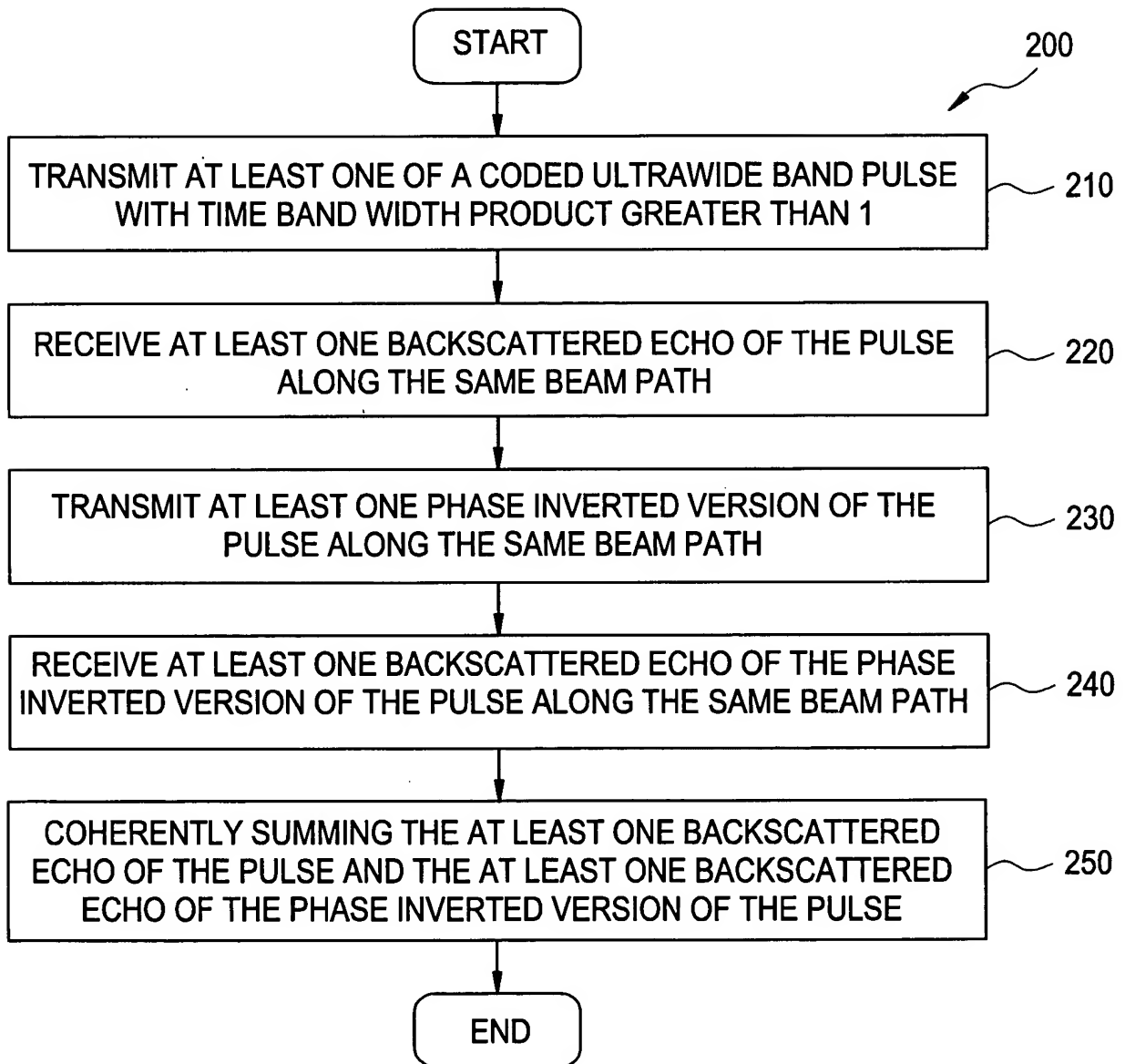
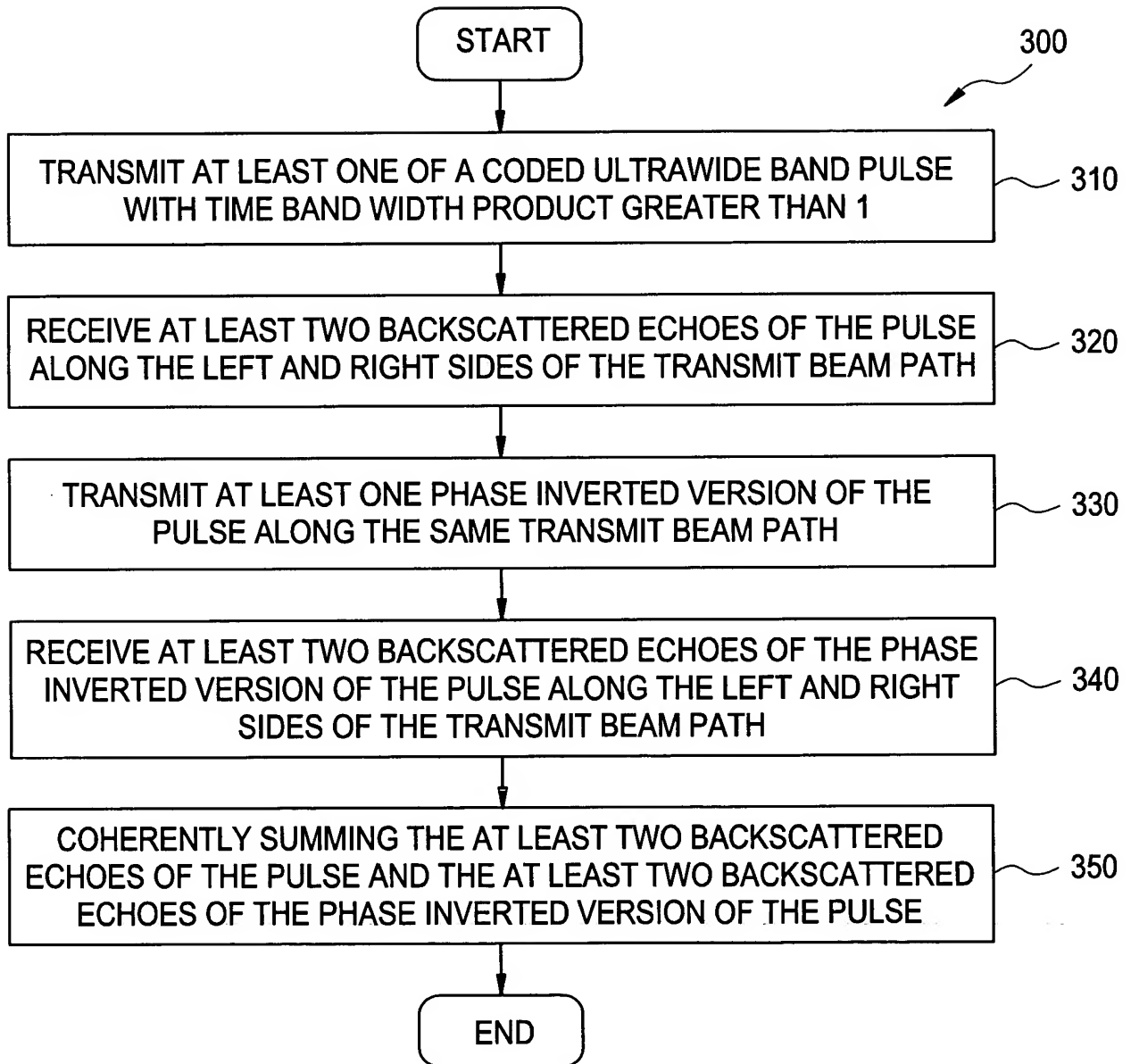
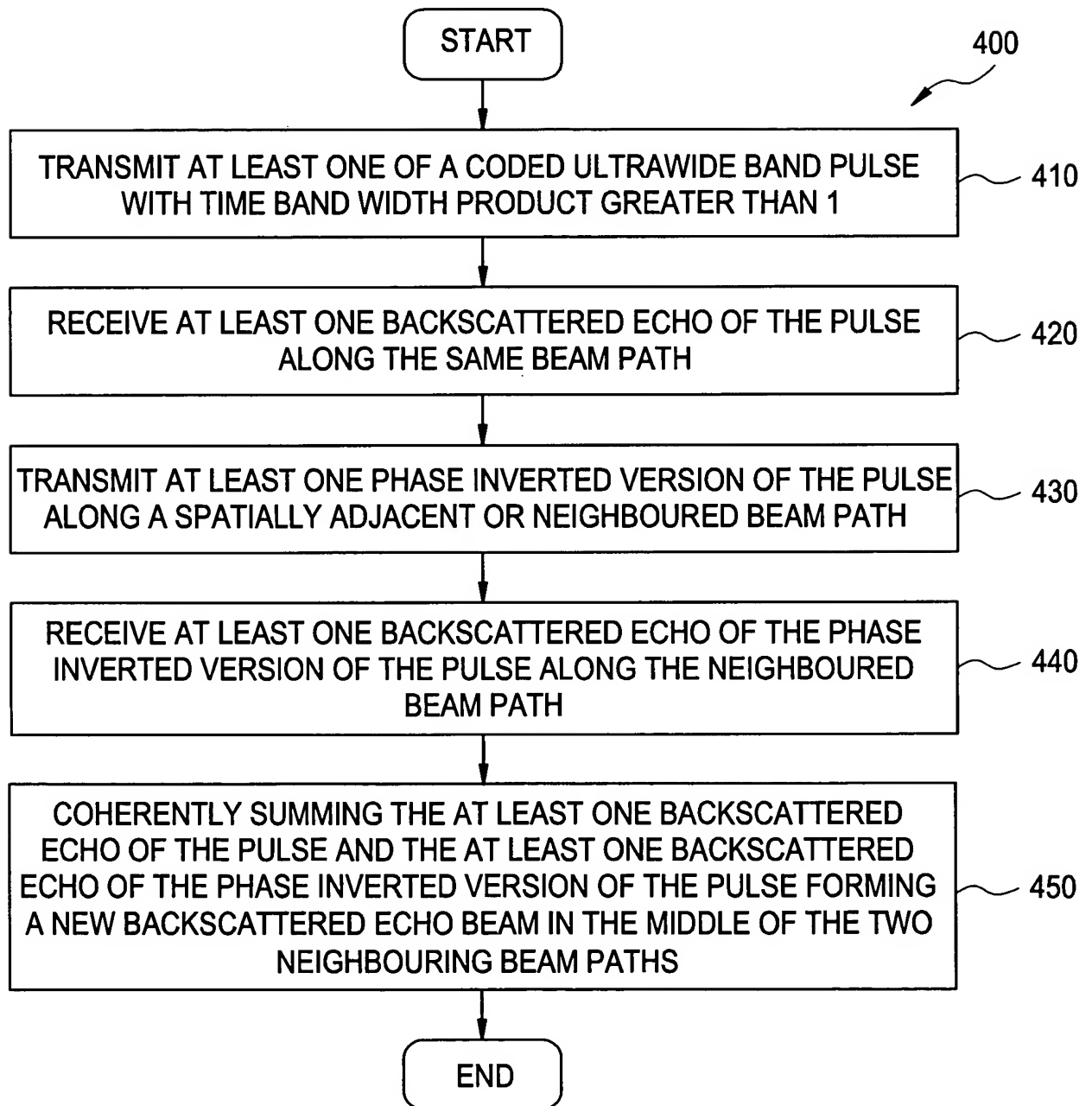


FIG. 3



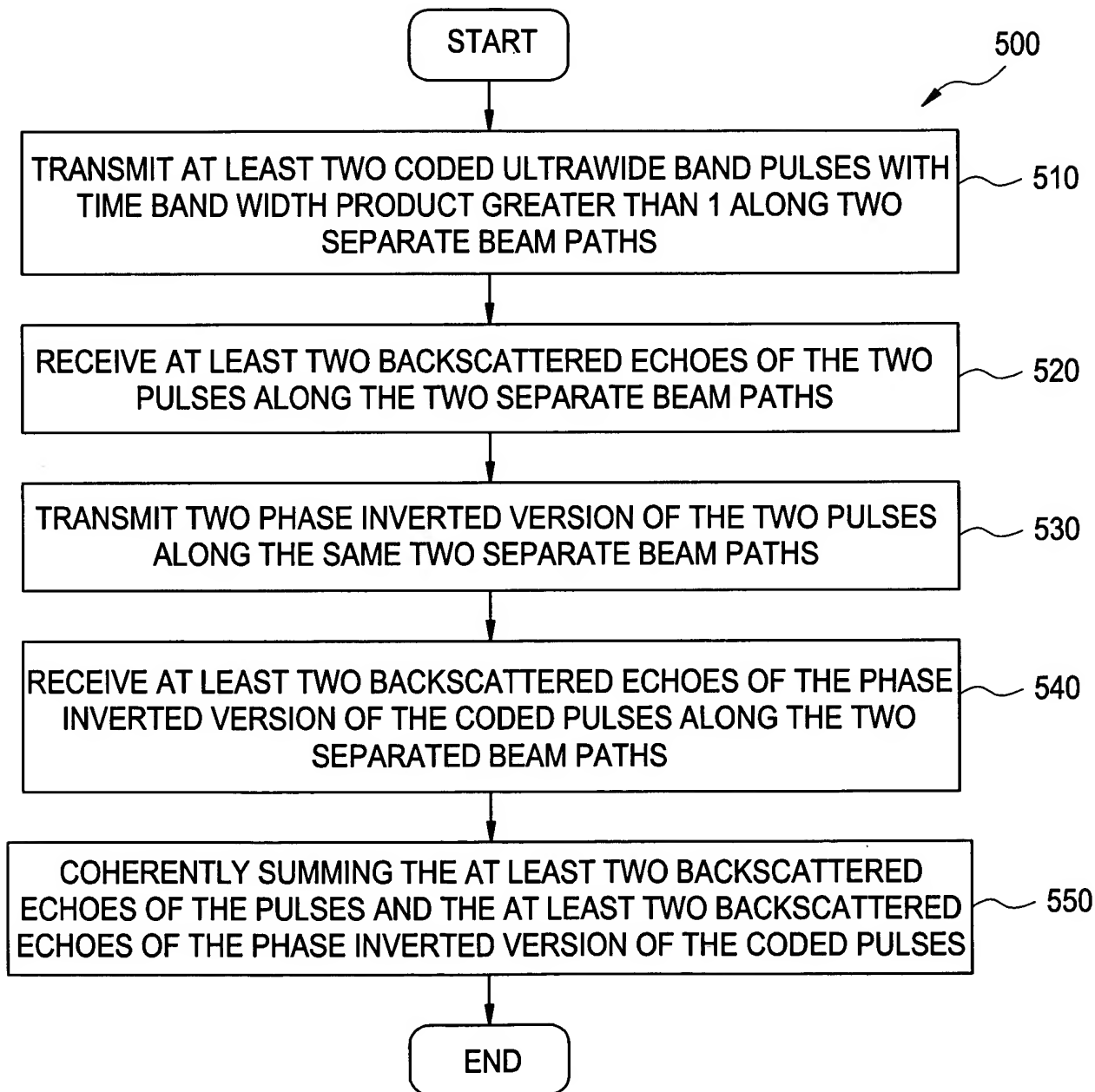
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FIG. 4



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FIG. 5



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FIG. 6

Spectrum of the Ultra-wide band pulse and a regular pulse with the same time duration and center frequency

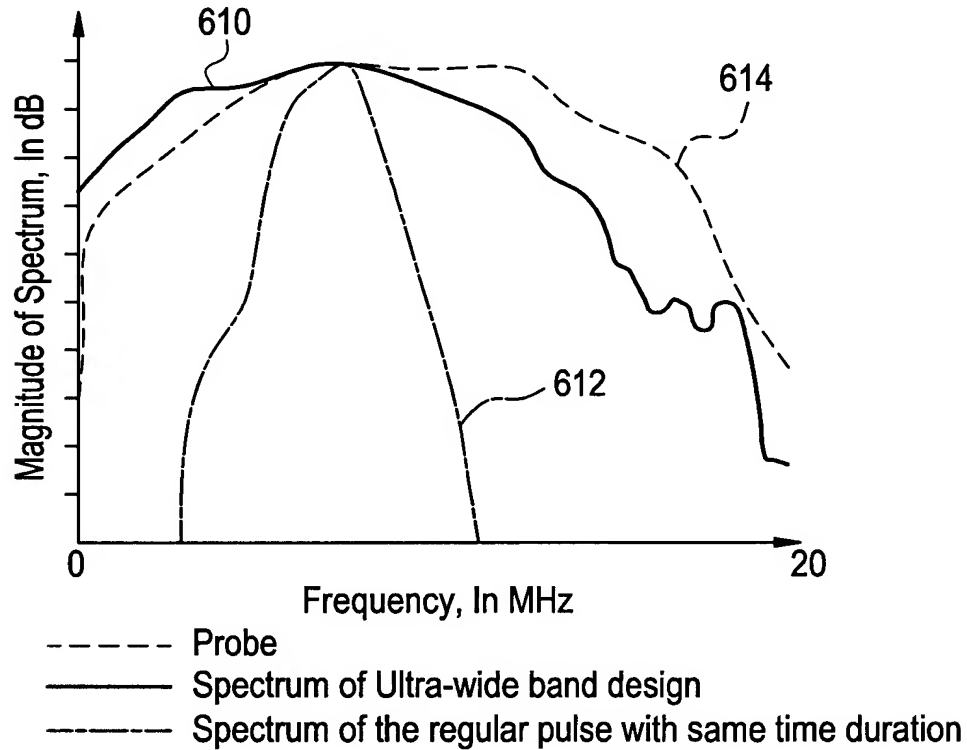


FIG. 7

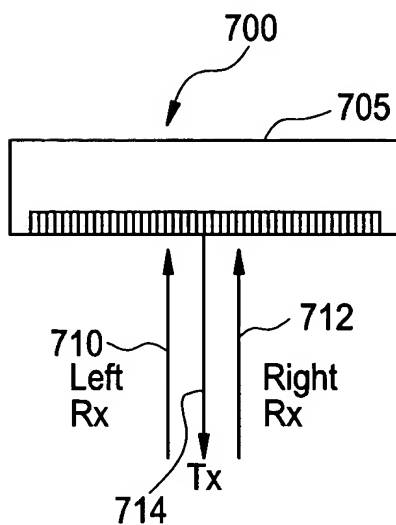


FIG. 8

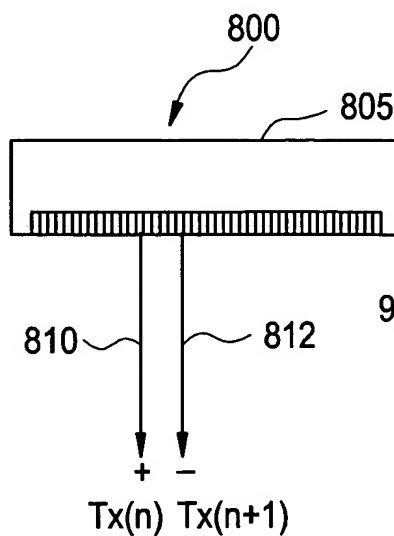


FIG. 9

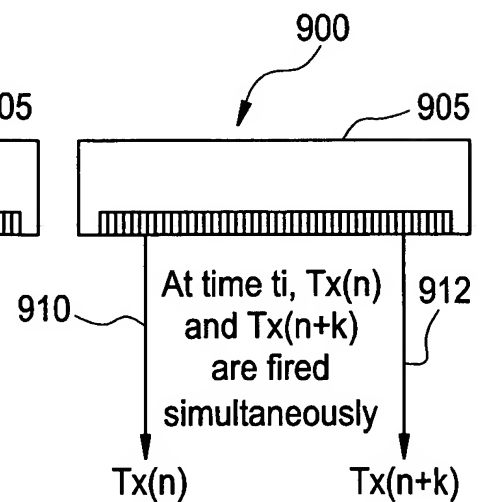


FIG. 10

Attenuation effect on the Ultra-wide band transmitted signal

